490
Wood

REYNOLDS ALUMINUM

commercial building products

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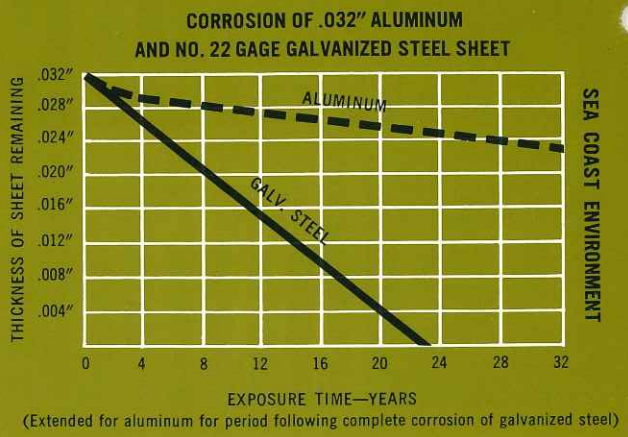
REYNOLDS ALUMINUM... ITS BONUS IS BEAUTY.....

BUILT-IN LONG, TROUBLE-FREE LIFE

Aluminum presents a clean, modern appearance the day it goes up—and stays that way for the life of the building. No finishing cost today and no re-finishing cost tomorrow. Aluminum is virtually maintenance-free. Maintain your reputation while the building user's reputation for quality products or services are reflected to his buying public by the quality of an aluminum building.

THE WASHINGTON MONUMENT, one of our nation's many built-to-last structures, is capped with aluminum. No maintenance is required for aluminum while the masonry requires periodic tuck pointing and repair.



(Extended for aluminum for period following complete corrosion of galvanized steel)

EASY-TO-HANDLE

Reynolds aluminum goes up fast in easy-to-handle wide widths and one man does the job where two are needed with other materials.

Many combinations of exterior and interior sheets illustrated in this brochure can be made to fit most individual job requirements. Select the widths and lengths best-suited for your job. They'll be shipped to the site for fast and easy field assembly. Pocket a savings over the handling, packaging and freight costs of assembled units.

HIGH STRENGTH-TO-WEIGHT RATIO; HURRICANE TEST TELLS THE STORY

Featherweight Reynolds aluminum packs a heavy-weight punch when it comes to standing up to hurricane force winds or heavy foot traffic.

THERMAL AND LIGHT REFLECTIVITY

Aluminum surfaces reflect both heat and light better than other materials. Reflectivity makes aluminum buildings cooler in summer and less costly to heat in winter.

And lighting is more economical when you let aluminum roof and wall panels extend it for you. Aluminum's reflectivity cuts down shadows and dark corners, makes aluminum buildings "better-to-see-in."

WINTER
Heat stays in

SUMMER Radiant heat is reflected—stays out

.....ITS PLUS IS PERFORMANCE

(Extended for aluminum for period following complete corrosion of galvanized steel)

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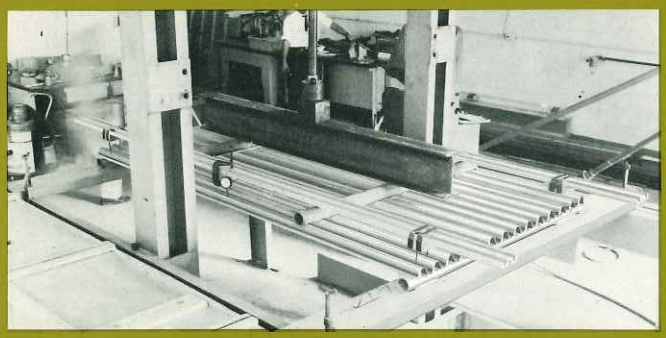


Aluminum's high strength proven by actual load tests.

HEAT LOSS COMPARISON

MATERIAL	VERTICAL SURFACE	HORIZONTAL SURFACE	
		Heat Flow UP	Heat Flow DOWN
Corrugated Aluminum	0.65	0.79	0.35
Corrugated Asbestos Cement	1.00	1.16	0.86
Corrugated Steel	1.18	1.28	0.92

Values in BTU/hr./sq. ft./degree F

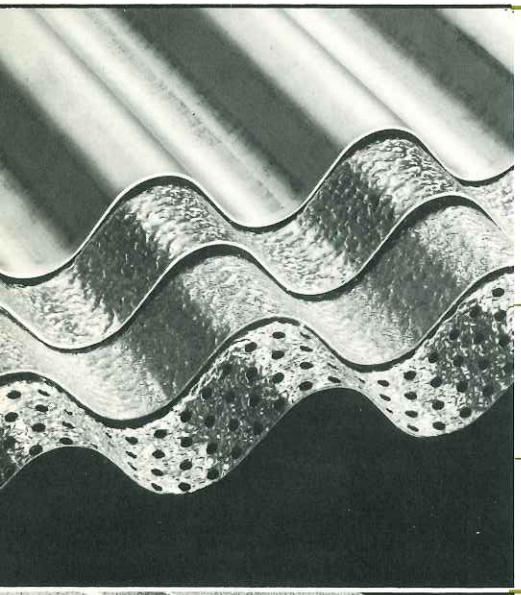
COSTS LESS TO OWN

- **LESS LABOR COST . . .** *because there are fewer and lighter sheets to handle.*
- **LESS MATERIAL TO BUY . . .** *because of less lap loss using wide and long sheets.*
- **FEWER FASTENERS ARE REQUIRED . . .** *because there are fewer sheets.*
- **LOWER HEATING AND COOLING COSTS . . .** *holds heat in winter . . . reflects it in summer.*
- **EASY-TO-WORK . . .** *to cut, drill and punch*
- **HIGH SCRAP VALUE . . .** *aluminum is valuable as scrap when a building has outlived its usefulness.*
- **LESS "DEAD LOAD" FOR STRUCTURALS AND FOUNDATIONS . . .** *money is saved because they can be lighter.*
- **EASY RE-LOCATION OF WALLS . . .** *a simple task with aluminum.*
- **READILY AVAILABLE . . .** *delivery to your job site in many configurations, thicknesses and finishes from distributor warehouse stocks. Your costs equal that of aluminum whether you select it or not. Why not use the very finest?*

INDEX

	Page
Advantages of Aluminum	2 & 3
Product Data and Availability	4 & 5
Colorweld Process	6
Colorweld Colors	7
Load Span Charts and Wall Combination Sections	8
Insulated Wall Section and Comparative "U" Values	9
Typical Flashing Details	10 & 11
Roofing and Siding Specifications	12
Concealed Clip Panels	13
"CCP" Load-Span Chart	14
"CCP" Accessories	15
"CCP" Insulated Wall System	16
"CCP" Advantages and Refacing Application Details	17
"CCP" Damaged Panel Replacement	18
"CCP" Suggested Architectural Specifications	19
Roof Deck	20 & 21
Lightweight, "Class A" Incombustible Sound Conditioning	22 & 23
Accessories	Back Cover

REYNOLDS ALUMINUM ROOFING



COMMERCIAL CORRUGATED

By far the most popular roofing and siding sheet for general purpose use on commercial and industrial buildings. This configuration still represents the best combination of strength and economy while providing all the advantages of aluminum siding. May be used both for exterior and interior sheets of a field-assembled wall. **(**Finishes illustrated at left, top to bottom, are: Mill Finish, Stucco-Embossed, Double-Embossed and Perforated Stucco-Embossed.**)**

THICK-NESS	SHEET WIDTH	COVER-AGE
.032	47″ 33¾″	45⅓″ 32″
.024	47″ 33¾″	45⅓″ 32″
.032	48⅓″ 35″	45⅓″ 32″
.024	48⅓″ 35″	45⅓″ 32″

PRE-CURVED CORRUGATED

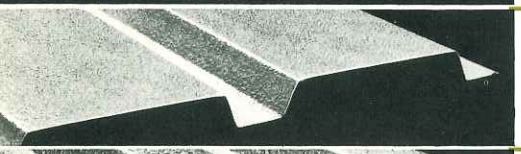
The same configuration as commercial corrugated but pre-curved **(**to radii greater than 30″ with sheet lengths from 5′ to 14′6″, longer on special inquiry**)** for uses such as conveyor covers, barrel-vaulted walkway covers, marina boat shelters, and other special uses. **(**Length of sheet becomes arc-length after pre-curving.**)**

THICK-NESS	SHEET WIDTH	COVER-AGE
.032	48⅓″ 47″ 35″ 33¾″	45⅓″ 32″

PERFORATED CORRUGATED

For use as an interior sheet only where corrugated would otherwise be used, but where acoustical treatment is desired for noise reduction. Due to the 14% open area this sheet provides an N.R.C. of up to 0.90 **(**depending upon insulation used for the wall assembly**)** at minimum cost for effective acoustical treatment, and pleasing appearance.

THICK-NESS	SHEET WIDTH	COVER-AGE
.024	33¾″	32″



8″ RIB

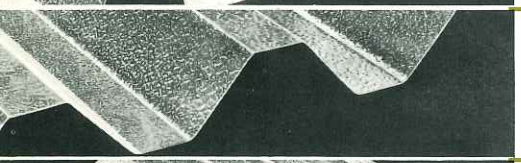
The best combination of appearance and economy where great spanning strength is not required. This configuration achieves a "paneled" look at low cost and is ideal for remodeling and "face-lifting" applications on older buildings, deep-fascias,and other applications where strength is secondary to appearance and economy.

THICK-NESS	SHEET WIDTH	COVER-AGE
.032 .040	49 7/16″	48″

4″ RIB

Second to corrugated in popularity—and with good reason. This configuration is the best combination of maximum strength with good economy for a wall siding where more emphasis is placed on an aesthetically pleasing appearance. This panel can also be used upside-down as a roofing panel, in addition to being the best all-around siding panel.

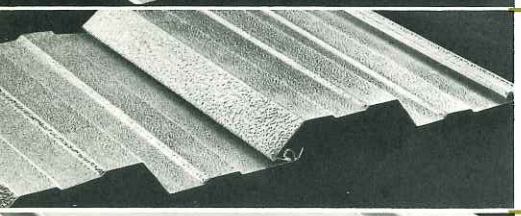
THICK-NESS	SHEET WIDTH	COVER-AGE
.032 .040	45 7/16″	44″



V-BEAM

Designed as both a roofing and siding sheet for maximum spanning strength. This deep configuration is ideal for great spans and provides a bonus in appearance with its handsome shadow line. While the cost is somewhat higher than the other configurations, it is often offset by savings in structural costs achieved by its greater spanning properties, and savings in labor costs resulting from the wide-coverage and fewer number of sheets to erect.

THICK-NESS	SHEET WIDTH	COVER-AGE
.032 .040 .050	44 13/16″	42⅔″



CONCEALED CLIP PANEL

Reynold's unique new wall panel with all fasteners concealed, yet absolutely weatherproof, for those prestige jobs which demand the very finest quality wall panel available, and where concern for appearance and attention to detail is taken for granted. The deep shadow line and wide-pitch rhythm of this handsome configuration achieve a strong textured pattern designed to harmonize with most other materials for maximum over-all architectural effect and structural strength. Also ideal for "face-lifting" older buildings, and designed to be used for roofing as well.

THICK-NESS	SHEET WIDTH	COVER-AGE
.024 .032 .040 .050	13.35″	12″

COMMERCIAL CRIMP

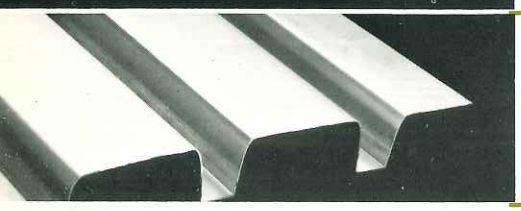
Designed as an interior siding sheet only, this configuration depends primarily on the exterior sheet to resist wind loads, but provides the wide-flat, shallow-rib appearance at minimum cost.

THICK-NESS	SHEET WIDTH	COVER-AGE
.032 .024	33″	32″

PANEL RIB

A wide coverage sheet for interior use only, where a ribbed interior appearance is desirable and low cost and high performance is of paramount importance.

THICK-NESS	SHEET WIDTH	COVER-AGE
.0215	49¾″	48″



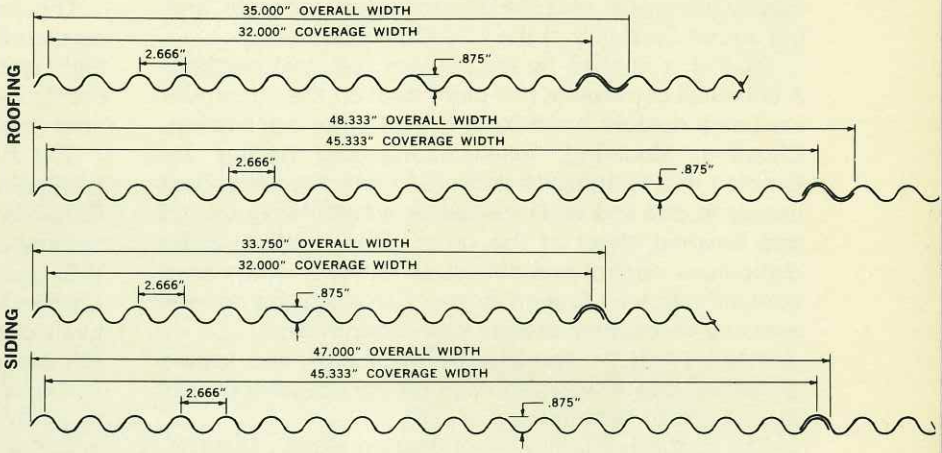
ROOF DECK

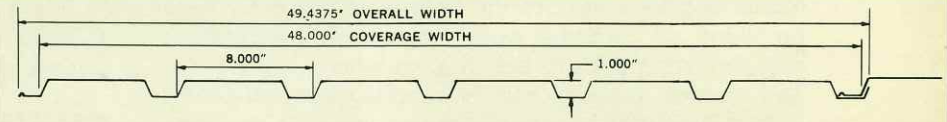
A no-maintenance corrosion resistant roof-deck that never requires painting and has high spanning strength for conventional built-up roofs. Widely used in high-moisture and sanitary condition applications prevalent in industries such as food processing, textiles, etc., where lower cost roof-decks require constant cleaning and repainting, and actually become more expensive over the service life. In addition, the permanently reflective aluminum deck improves the "U" value of the roof section by over 7%, compared to steel decks, resulting in significant savings in heating and cooling costs.

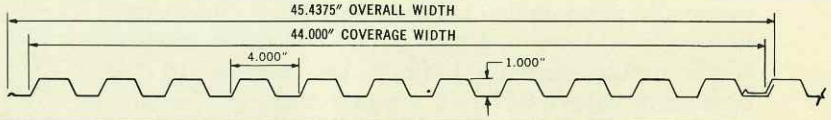
THICK-NESS	SHEET WIDTH	COVER-AGE
.036 .040 .050	24 13/16″	24″

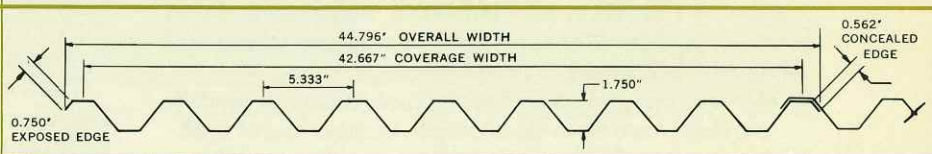
AND SIDING PRODUCT DATA

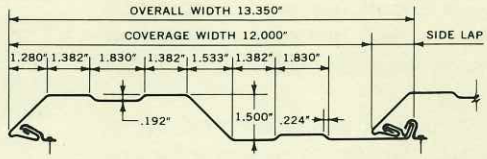
RELATIVE COVERAGE COST COMPARISON FACTOR			WEIGHT PER SQ.		AVAILABLE LENGTHS	
SEE FOOTNOTES—THIS COLUMN ONLY	STUCCO-EMBOSSED	MILL FINISH	COLOR	UN-PAINTED		
1.038 ①	***1.000**	0.980	57.6	55.2	3′ to 30′ in 6″ increments	ROOFING / SIDING
1.055	* 1.015	0.995				
Not Available	0.758	0.741		41.4		
	0.769	0.753				
1.064 ①	*1.027	1.005	57.6	55.2		
1.090	*1.052	1.030				
Not Available	0.777	0.760		41.4		
	0.796	0.780				
Not Available	1.190	Not Available		54.9	5′ thru 14′6″ in 6″ increments	
	1.159					
	1.220					
	1.178					
Not Available	0.941	Not Available		35.8	3′ to 30′ in 6″ increments	PRE-CURVED—SAME AS DETAILS ABOVE
② 1.286	1.053	Not Available	53.4	52.1	3′ to 30′ in 6″ increments	
1.540	1.283		66.3	65.1		
② 1.429	1.163	Not Available	59.8	58.3	3′ to 30′ in 6″ increments	
1.710	1.418		74.1	72.9		
② 1.533	1.237	1.206	59.4	58.0	3′ to 30′ in 6″ increments	
1.770	1.464	1.422	73.7	72.4		
2.178	1.826	1.781	92.0	90.6		
Subject to special inquiry			53.0	51.6	4 to 39′ in 6″ increments	
② 1.675	1.468	Not Available	70.6	68.9		
2.000	1.785	Not Available	87.8	86.1		
Subject to special inquiry			109.4	107.7		
③ 1.042	Not Available	0.926	49.6	48.4	5′ to 12′ in 6″ increment	
0.834		0.728	37.5	36.3		
② 0.730	0.500	Not Available	35.0	33.8	6′ to 24′	
Not Available	Not Available	1.700		85.5	5′ to 225″	
Not Available	Not Available	1.890		95.0		
Subject to special inquiry				118.8		

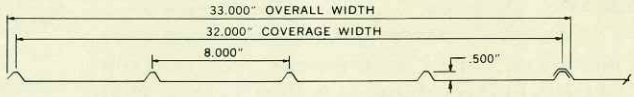


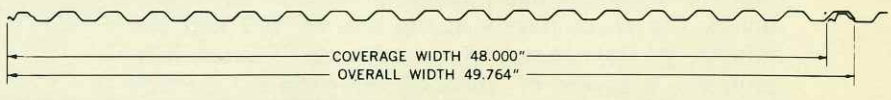


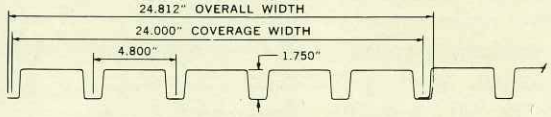












① DOUBLE-EMBOSSED
② STUCCO-EMBOSSED COLORWELD
③ UNEMBOSSED COLORWELD

*STUCCO-EMBOSSED COLORWELD AVAILABLE ON SPECIAL INQUIRY

REYNOLDS ALUMINUM BUILDING PRODUCTS

DESCRIPTION: Reynolds Commercial Building and Siding Products are available in the eight standard COLORWELD colors shown. COLORWELD is a pre-enameled aluminum sheet having all the advantages of natural aluminum plus the design latitude of color, and the added durability of the COLORWELD finish.

Enamel is applied by the reverse roll-coat method. A chemical conversion pre-paint coat on the aluminum assures a durable bond for the final color application. Cleaning, alodining, roller-coating and baking are handled in a continuous process in which coiled sheet unrolls at one end and emerges as a completely coated and finished sheet at the other. This is done under meticulous control and almost complete freedom from contamination by foreign matter. Color sensing devices are used to maintain precise color uniformity.

ADVANTAGES: You buy beauty, color, and lasting durability, and at only pennies more per square foot than for unpainted aluminum.

The tough resilient enamel coating allows COLORWELD enamel flashing sheets to be locally fabricated.

Ordinary manufacturing or field-applied coloring processes subject the product to human error to a much higher degree than does the Colorweld process. These problems are: possible poor preparation of metal, or contamination prior to painting, variations in coverage and damage to product while handling through ovens.

COLORWELD combines the very latest in precision automation and quality color control. Mass-production efficiency and economy plus a new, physically tougher finish makes possible uniform pre-coloring of flat aluminum sheets BEFORE product forming. Contamination and variation are eliminated. Regardless of end product configurations there are no thick and thin color variations, no breaks in color coverage.

Here is color that won't peel, crack, blister or mildew . . . provides maximum resistance to abrasions and scuffing . . . absorbs severe shock or deep dents without chipping or spalling . . . is chemically inert to common acids, alkalies and salts . . . will not rust or undercut when film is broken by drilling for fasteners or other fabrication.

Aluminum, the finest paints available, and latest manufacturing processes by Reynolds combine for unbeatable quality.

To be first with the finest . . . side with Reynolds!

PROCESS: A de-coiler straightens the unpainted coils of natural aluminum which continuously feed into the intricate COLORWELD machine, as rolls of paper are fed into highspeed printing presses. Untouched by human hands, the sheet travels at the rate of 100 feet per minute on its completely automated quarter mile journey. A series of chemical de-greasers, surface preparations and cleaning baths eliminate every source of contamination. Now absolutely clean and properly prepared for perfect color adhesion, the flat aluminum sheet continues through a series of coating rollers to receive the smoothest, most uniform, color coverage possible. On into the baking ovens, the color becomes permanently welded to the aluminum . . . perfect bonding is assured. Although the precision machinery assures highest quality control, all coils are subjected to continuous rigid scientific inspection and sampling. You can always be sure of the same uniform, constant color.

The pre-colored sheets are recoiled and placed in protected storage areas, ready for product forming. Eight standard colors, in various gauges and widths and configurations, are available to meet the most stringent requirements for beautiful, functional designs.

The flat pre-colored sheets are later subjected to fabricating pressures exceeding a ton. The tough COLORWELD film withstands these torturous operations of embossing and forming . . . proof that COLORWELD colors can really take it!

USES: These bright medium gloss colors can be attractively combined with the contrasting colors and textures of other materials for pleasing architectural effect.

The eight standard COLORWELD colors are available in all Reynolds siding configurations except Commercial Corrugated in Stucco-Embossed finish only. In addition they are also available in Stucco-Embossed finish flat flashing sheet for field forming to individual job requirements.

These can be used as contrasting trim to other COLORWELD siding colors, or to enhance the natural beauty of aluminum with a color accent.

SUGGESTED COLORWELD SPECIFICATIONS

All siding and/or roofing covered by this specification shall be finish painted as herein specified by the Reynolds Metals Company, such that no field painting shall be required except for touch-up scuffs and scratches which may occur during erection.

The aluminum shall receive, prior to painting, a conversion coating specifically formulated as a pre-paint treatment for aluminum. A protective back-coating shall be applied to the reverse side. The conversion coating, the back-coating, and all paint shall be applied in one continuous process, starting with unpainted coiled aluminum and ending with painted coiled aluminum. The finish paint shall be applied by the reverse roll-coat method and shall be oven baked. The dry film thickness of the paint shall be 1 mil (plus or minus 0.2 mil). The finish shall be of such quality that all shearing, embossing, or forming may be done after painting without damage to the surface or separation of the finish from the aluminum. The paint finish shall be free from sagging, streaking, or visible "orange peel." The paint finish shall meet the following requirements (method numbers indicated are per the latest issue of Federal Testing Methods Standard No. 141):

GLOSS RANGE (Method #6101 of Federal Test Method Standard #141 and ASTM D523-53T) —specular gloss shall be 30 units, plus or minus 8 units, on a 60-degree photovoltmeter unless otherwise specified.

HUMIDITY RESISTANCE (Method #6201 and JAN-H-792) —humidity resistance, 2000 hours of 100% relative humidity with the cabinet at 100°F. Film to

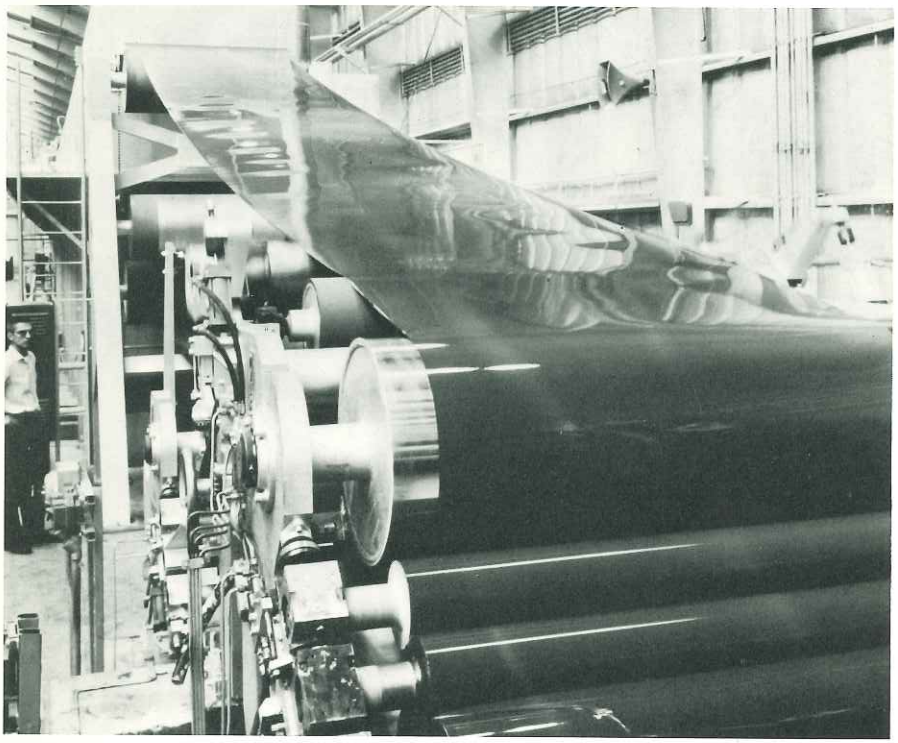
FEATURING COLORWELD: ALUMINUM PLUS COLOR FOR DURABILITY AND BEAUTY

reveal no change and be free of blistering.

SALT SPRAY RESISTANCE:
ASTM B117-61) —1000 hours in 5% salt spray. No corrosion creepage or blistering from the score line shall exceed 1/32".

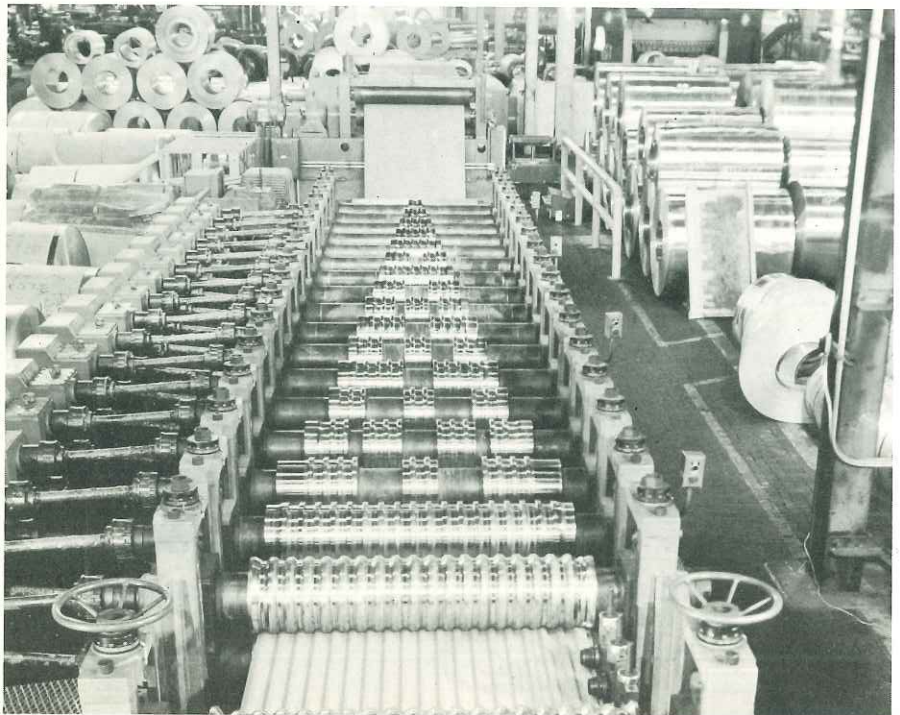
WEATHEROMETER (Method #6152 and ASTM D822-60) —National Carbon Arc Weathering Test, 2R cycle, 110 minutes ultra-violet exposure, 10 minutes ultra-violet plus water exposure. Finish shall reveal only very slight fading and slight chalking after 1000 hours.

WATER IMMERSION TEST (Method #6011) —a test panel exposed by immersion in distilled water at 100°F for 100 hours shall upon immediate withdrawal be free of checking, blistering or peeling of the coating.



Colorweld coil is made in a completely automatic, three-step process, with electronic controls to assure color uniformity.

Baked-on enamel coating on Colorweld is tough enough to take a ton of pressure without cracking or crazing.



Choose from 8 handsome COLORWELD colors

Polar White

Mint Green

Desert Beige

Dawn Blue

*Driftwood Gray

*Heron Blue

*Vivid Cream

*Terra Cotta

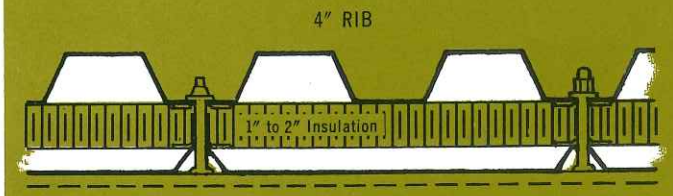
*Subject to special inquiry for V-Beam, 8" Rib, CCP and Corrugated.

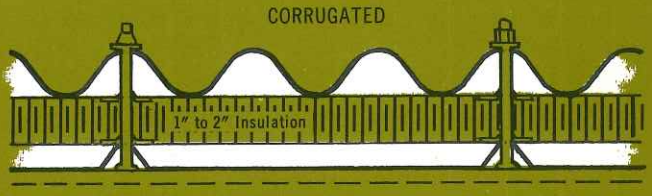
These standard COLORWELD medium gloss colors are available on aluminum sheet in a range of gauges, widths, and configurations.

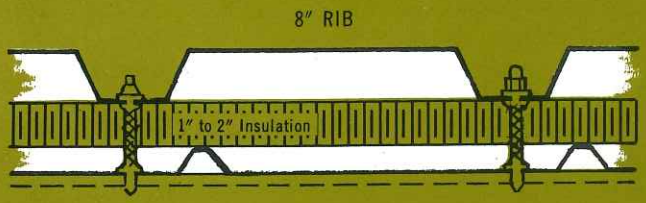
Matching Colorweld Flashing Available

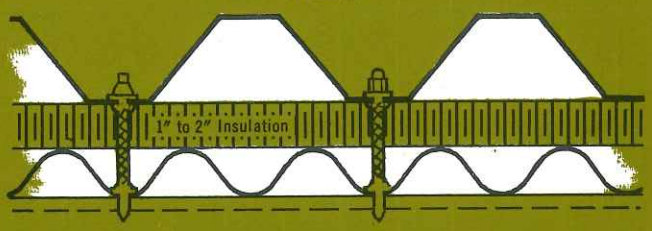
Flat sheets of stucco-embossed COLORWELD flashings are available for fabricating and cutting in the field to satisfy the exact requirements of each job.

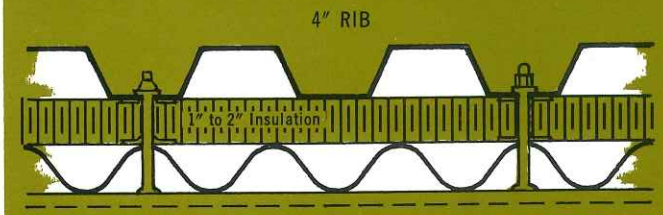
7 TYPICAL SECTIONS

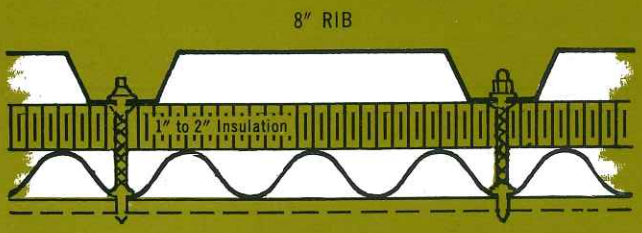


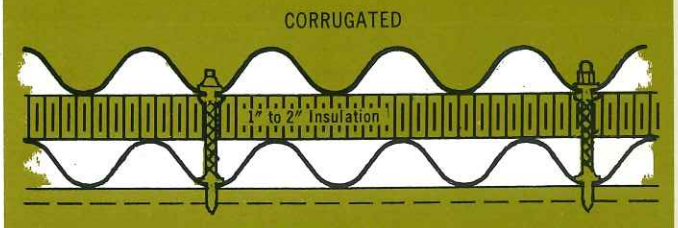












RECOMMENDED LOAD-SPAN TABLE

UNIFORM LOAD PSF.	20	25	30	35	40	45	50	55	60
	PURLIN OR GIRT SPACING (inches)								
RIBBED									
.032 4" pitch	109	98	89	83	77	73	69	67	64
.040 4" pitch	124	115	108	100	93	88	83	78	73
.032 8" pitch	73	65	60	55	52	49	46	43	41
.040 8" pitch	86	77	70	65	61	57	54	51	48
CORRUGATED									
.024	80	71	65	60	56	53	50	48	46
.032	91	84	77	71	67	63	60	56	54
V-BEAM									
.032	125	111	102	94	88	83	79	75	72
.040	146	130	119	110	103	97	92	88	84
.050	174	158	145	134	125	118	112	107	102
INSULATED WALL SYSTEM									
.032 4" Rib .032 Corrugated	128	114	104	96	90	85	81	—	—
.032 4" Rib .024 Perf. Corr.	115	102	93	85	78	73	69	—	—
.032 4" Rib .024 Corrugated	120	107	98	90	85	80	76	—	—
.032 8" Rib .032 Corrugated	105	94	86	79	74	70	66	—	—
.032 8" Rib .024 Corrugated	92	82	75	69	65	61	58	—	—
.032 8" Rib .024 Perf. Corr.	87	77	70	64	58	54	51	—	—
.040 8" Rib .024 Corrugated	99	88	81	75	70	66	62	—	—
.040 8" Rib .024 Perf. Corr.	94	83	76	70	63	59	55	—	—
.032 Corrugated .032 Corrugated	114	106	100	95	91	87	84	—	—
.032 Corrugated .024 Corrugated	110	102	95	88	83	78	74	—	—
.024 Corrugated .024 Corrugated	104	96	91	85	80	75	71	—	—
.032 Corrugated .024 Perf. Corr.	106	97	89	81	76	72	68	—	—
.032 V-Beam .024 Corrugated	129	115	105	97	91	86	81	—	—
.032 V-Beam .032 Corrugated	132	118	108	100	93	88	84	—	—
.040 V-Beam .024 Corrugated	148	133	121	112	105	99	94	—	—
.040 V-Beam .032 Corrugated	151	135	123	114	107	100	95	—	—
.050 V-Beam .024 Corrugated	164	160	146	135	126	119	113	—	—
.050 V-Beam .032 Corrugated	164	161	147	136	127	120	114	—	—

NOTE: Insulated Wall assemblies can also utilize Crimp Sheet Interior, as illustrated in section details, two spans per length recommended. For span, disregard crimp sheet and use value for exterior sheet only.

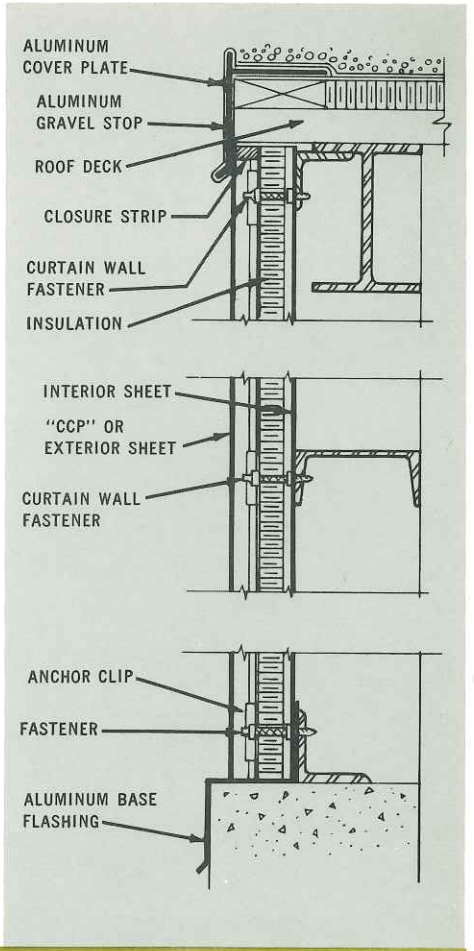
REYNOLDS ALUMINUM FIELD—ASSEMBLED INSULATED WALL

The versatility of Reynolds Field-Assembled Systems of insulated walls offers many advantages over any pre-cast or pre-assembled systems. First, any of the combinations of exterior and interior sheet as illustrated in this brochure can be used to fit individual job requirements. Secondly, shipping to the site unassembled saves handling, packaging and freight costs over assembled units. Thirdly, its flexibility allows it to adapt easily to inaccuracies in adjacent materials and unusual situations on the job. Aluminum is easy to cut and drill "to fit" in the field with small hand or power tools. This in itself makes it the best-suited material to use in a field-assembled system. Also, three thicknesses of insulation and the necessary fasteners are available as standard to furnish whatever "U" value may be desired in a given wall. This versatility also allows reuse of siding sheets in the event the building is expanded and existing walls must be taken down and relocated.

While the initial cost of aluminum may, or may not, be greater than competing materials, aluminum effects such great savings in so many ways over its lifetime of use that its *total unit cost* is lower than competing materials. Savings in heating costs alone may well offset its greater initial cost over steel.

Check the "U" values of comparative wall sections on this page. No other material at comparable cost offers as good a "U" value as unpainted aluminum whether used as a single skin wall or as a field assembled insulated wall. This means continuing savings in heating and cooling costs over the entire service life of the building. Additional savings can be realized by the light reflectivity of the aluminum interior skin.

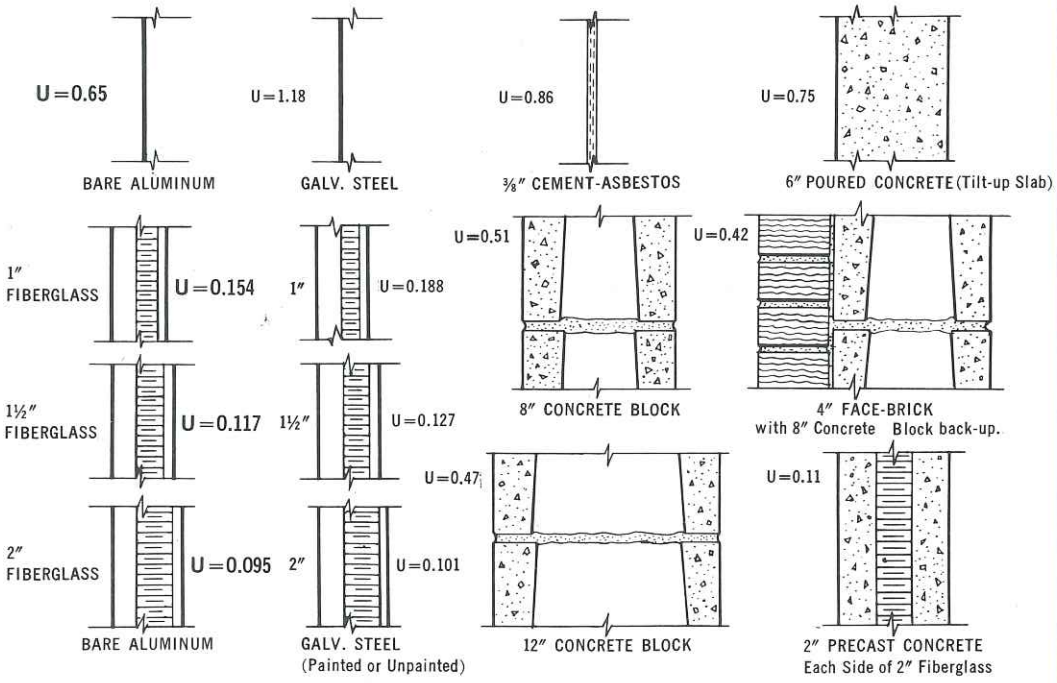
The same is true of its intrinsic value as scrap or savings in structural framing and savings on maintenance cost. The greater initial cost is offset many times over. When you select a wall system on the basis of *cost* rather than *price*, aluminum will be your choice.



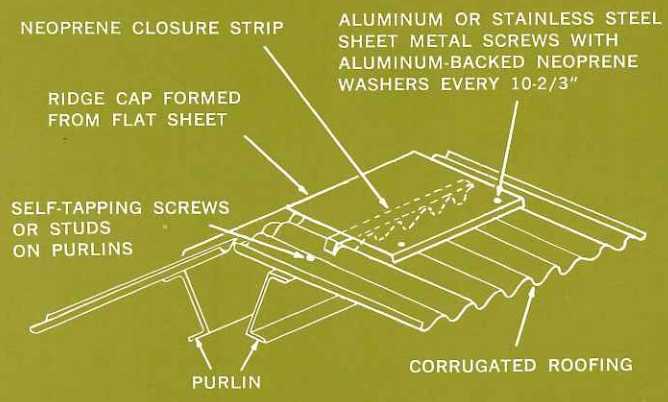
"U" VALUE COMPARISON CHART—TYPICAL WALL SECTIONS
(Based on "Normal" Conditions with 0° Outside and 70°F Inside Temperatures)

SINGLE SKIN (UNFINISHED) WALLS

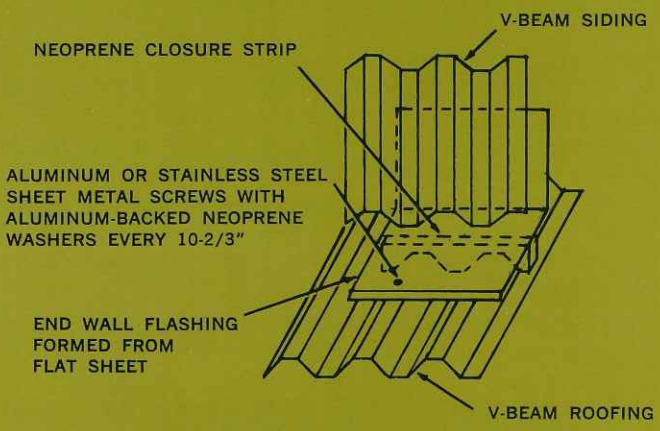
COMPLETE FINISHED WALL SECTIONS



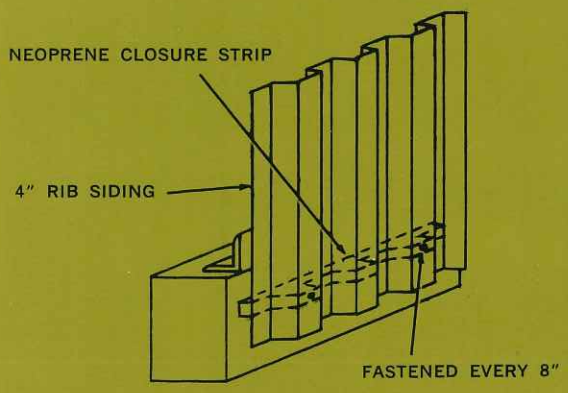
TYPICAL FLASHING DETAILS


NEOPRENE CLOSURE STRIP
ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS EVERY 10-2/3"
RIDGE CAP FORMED FROM FLAT SHEET
SELF-TAPPING SCREWS OR STUDS ON PURLINS
PURLIN
CORRUGATED ROOFING

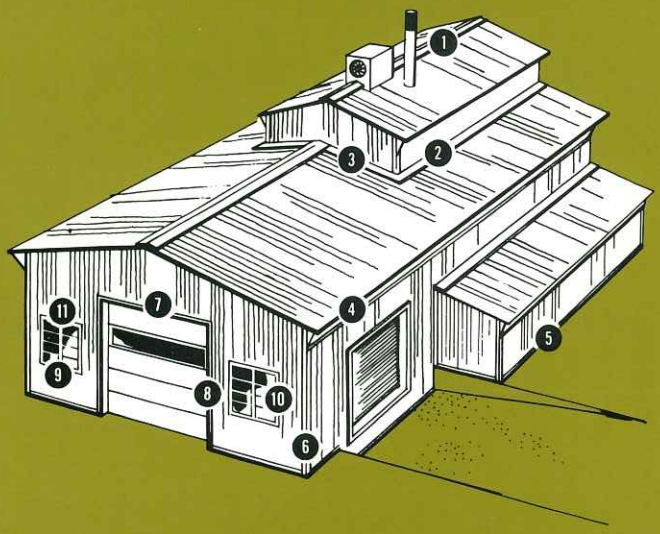
1 RIDGE

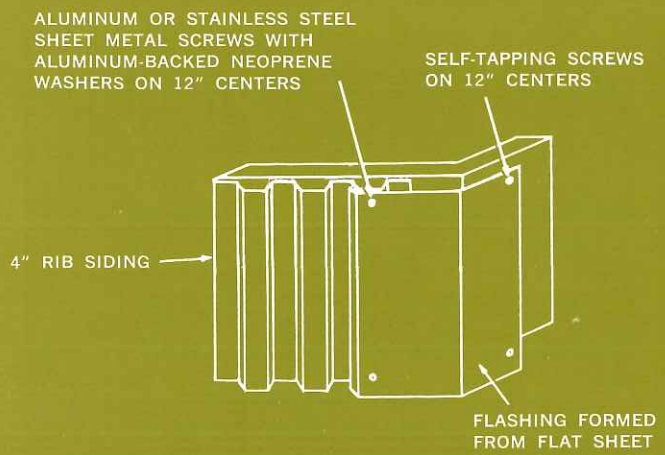

V-BEAM SIDING
NEOPRENE CLOSURE STRIP
ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS EVERY 10-2/3"
END WALL FLASHING FORMED FROM FLAT SHEET
V-BEAM ROOFING

2 END WALL

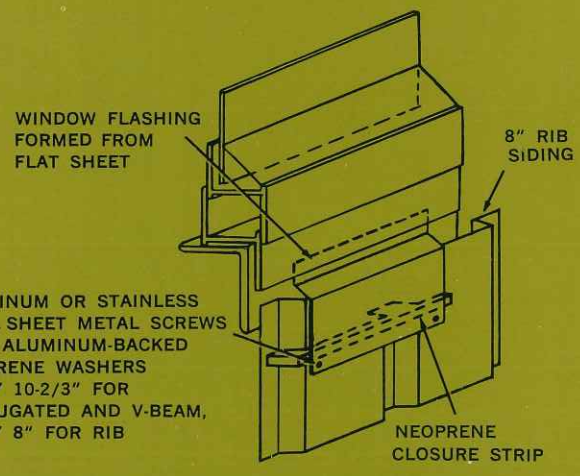


5 CURB



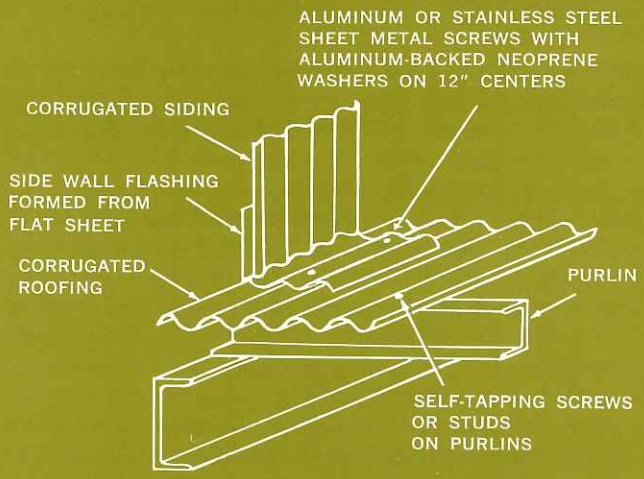

ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS ON 12" CENTERS
SELF-TAPPING SCREWS ON 12" CENTERS
4" RIB SIDING
FLASHING FORMED FROM FLAT SHEET

8 DOOR JAMB

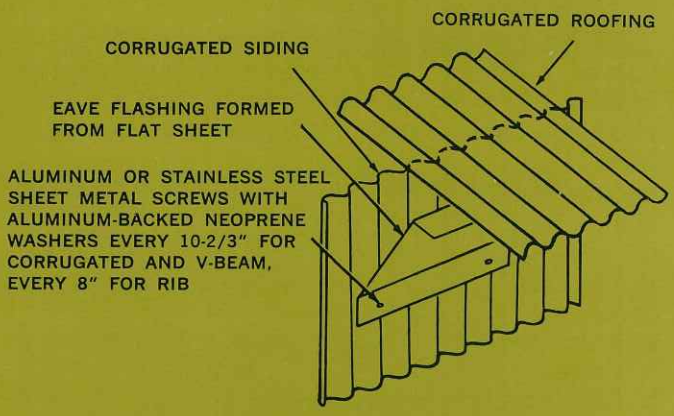

WINDOW FLASHING FORMED FROM FLAT SHEET
8" RIB SIDING
ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS EVERY 10-2/3" FOR CORRUGATED AND V-BEAM, EVERY 8" FOR RIB
NEOPRENE CLOSURE STRIP

9 WINDOW SILL

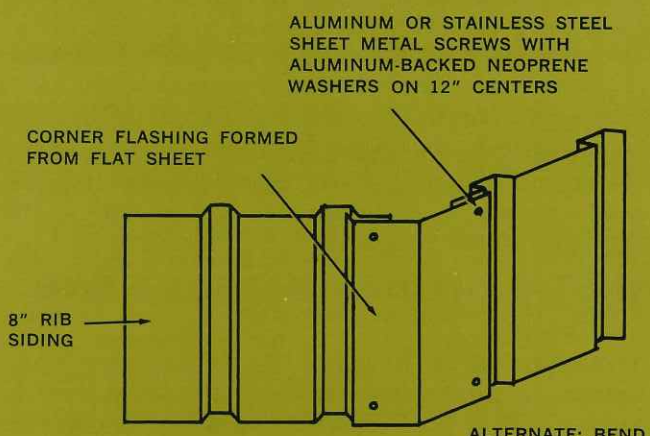
.....RIBBED.....CORRUGATED.....V-BEAM


ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS ON 12" CENTERS
CORRUGATED SIDING
SIDE WALL FLASHING FORMED FROM FLAT SHEET
CORRUGATED ROOFING
PURLIN
SELF-TAPPING SCREWS OR STUDS ON PURLINS

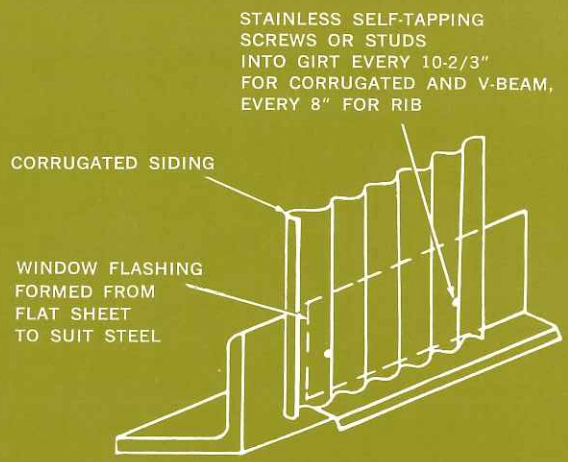
3 SIDE WALL


CORRUGATED ROOFING
CORRUGATED SIDING
EAVE FLASHING FORMED FROM FLAT SHEET
ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS EVERY 10-2/3" FOR CORRUGATED AND V-BEAM, EVERY 8" FOR RIB

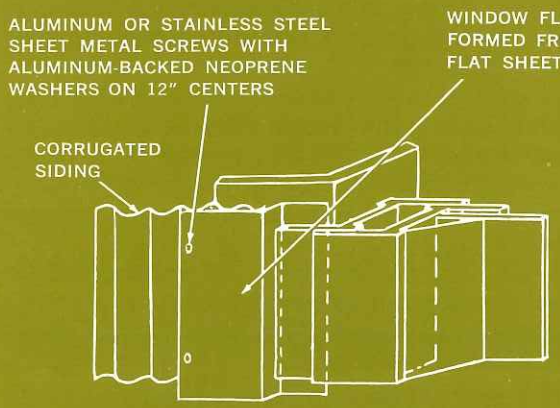
4 EAVE


ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS ON 12" CENTERS
CORNER FLASHING FORMED FROM FLAT SHEET
8" RIB SIDING
ALTERNATE: BEND SIDING SHEET AROUND CORNER

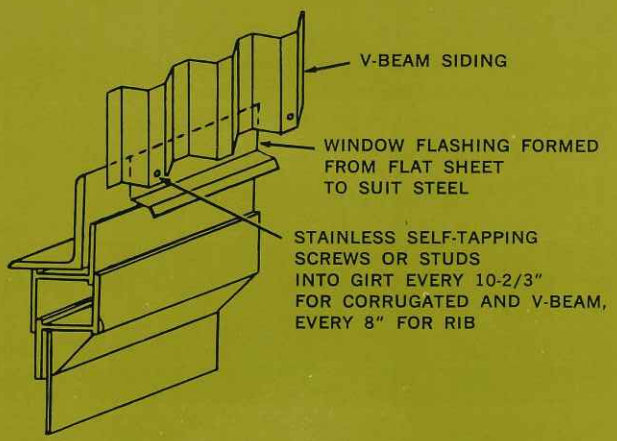
6 CORNER


STAINLESS SELF-TAPPING SCREWS OR STUDS INTO GIRT EVERY 10-2/3" FOR CORRUGATED AND V-BEAM, EVERY 8" FOR RIB
CORRUGATED SIDING
WINDOW FLASHING FORMED FROM FLAT SHEET TO SUIT STEEL

7 DOOR HEAD


ALUMINUM OR STAINLESS STEEL SHEET METAL SCREWS WITH ALUMINUM-BACKED NEOPRENE WASHERS ON 12" CENTERS
WINDOW FLASHING FORMED FROM FLAT SHEET
CORRUGATED SIDING

10 WINDOW JAMB


V-BEAM SIDING
WINDOW FLASHING FORMED FROM FLAT SHEET TO SUIT STEEL
STAINLESS SELF-TAPPING SCREWS OR STUDS INTO GIRT EVERY 10-2/3" FOR CORRUGATED AND V-BEAM, EVERY 8" FOR RIB

11 WINDOW HEAD

ROOFING AND SIDING SPECIFICATIONS

SUGGESTED SPECIFICATIONS

GENERAL CONDITIONS

"The General Conditions of the Contract for Construction of Buildings", standard form of the American Institute of Architects, current edition, and any supplementary general conditions are part of this specification.

WORK INCLUDED

Furnish all necessary labor, materials, and equipment to complete the fabrication and erection of all aluminum roofing and/or siding and accessories as shown on the drawings or herein specified as follows:

a. Aluminum (specify product) roofing and/or siding sheets or roof deck.
b. Aluminum flashing and closures to provide a weather-tight installation.
c. Pre-formed rubber or neoprene closures as required to provide a weathertight installation.
d. Fasteners as required to secure the roofing and/or siding sheets and all accessories.
e. Calking and sealing required in connection with the work of this section.
f. Necessary facilities for storage of materials to prevent physical damage or water staining of the material prior to erection.

WORK NOT INCLUDED BUT ESSENTIAL TO INSTALLATION

Furnish and erect all structural steel and miscellaneous iron framing. Furnish and apply aluminum pigmented asphalt paint or approved equal to the steel framing, masonry surfaces, wood, or other materials not compatible with aluminum, as required to insulate them from contact with the aluminum panels and/or flashing and accessories in strict accordance with standard instructions as published by the Reynolds Metals Company, or as indicated on the drawings.

MATERIAL

All (specified product) roofing and/or siding sheets, flashing sheet, and closures shall be as manufactured by the Reynolds Metals Company, and shall be fabricated from sheets of 3004 alclad aluminum alloy. The (exterior and/or interior) sheets shall be (specify thickness of metal, pitch, and depth of configuration for each product) and shall be supplied in the lengths and widths as shown on the drawings. (Insert finish specification here. Closures should be specified here, if included in work).

FASTENERS

All fasteners which hold the aluminum sheets to the steel frame shall be Series 305 alloy stainless steel. Fasteners to structural supports shall be spaced a maximum of (corrugated roofing and siding or V-beam, 10⅔" on center; 4" or 8" rib siding, 8" center). All fasteners at side laps shall be either 6061 or 5056 alloy aluminum, or Series 305 alloy stainless steel. Side lap fasteners shall be spaced no more than 12"* on center. All fasteners shall be applied as recommended by the manufacturer and shall be designed to prevent water leakage through the fastener hole.

FASTENERS (For Field-Assembled Insulated Wall System)

Fasteners which hold the wall assembly to the steel frame shall be:

a. 5/16" diameter stud fasteners, Series 305 alloy stainless steel, cadmium plated with ½" O.D. aluminum rivet cap and stainless steel speed clips. Grip length shall be_____(specify length equal to depth of corrugation of inside skin plus thickness of insulation plus depth of corrugation of outside skin only if crown fasteners are employed. If valley fastening is used, add thickness of metal only. See details, page 9).
b. Self-tapping screws, #14 x (specify grip length), hex head, Type B thread, in Series 305 stainless steel, cadmium plated with Neoprene backed aluminum washer.

Side lap fasteners shall be spaced no more than 12"* on center. All fasteners shall be applied as recommended by the manufacturer and shall be designed to prevent water leakage through the fastener holes.

INSULATION (For Field-Assembled Insulated Wall System)

The insulation shall be Owens-Corning PF615, (specify thickness) or 6# density or approved equal.

GENERAL

Handling, storage, and erection of the (specify product) roofing and/or siding sheets, flashing, and accessories shall conform to the instructions supplied by the Reynolds Metals Company.

INSTALLATION INSTRUCTIONS

GENERAL

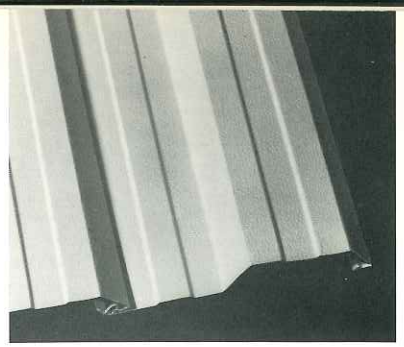
- Installation of all Reynolds Metals Company Commercial Roofing and/or Siding, Field-Assembled Insulated Wall or Roof Deck shall be in strict accordance with standard instructions by the Reynolds Metals Company, or as indicated on the drawings.
- Cut aluminum siding and roofing sheets by using a power saw with a metal cutting blade.
- Insulate dissimilar metal and masonry surfaces from aluminum siding and/or roofing sheets and flashing with aluminum pigmented asphalt paint or a brushable type, non-hardening butyl rubber base sealant or equivalent.
- Keep aluminum sheets dry prior to erection. Avoid condensation by storing all sheets in a dry, heated location.
- Do not allow sheets to come in contact with fertilizers, caustic soda, nitrates, lime, salt, acids or alkalis.
- Do not make mixed installation of aluminum and copper products.
- Use only aluminum or stainless steel accessories and fittings except as specified herein.
- Maintain correct alignment of siding and roofing sheets for good fit and appearance.

LOADING AND SUPPORT SPACING

For recommended loading and support spacing, see tables and consult your local building codes.

*18" on ribbed siding

"CCP" ... REYNOLDS NEW AND EXCLUSIVE ... CONCEALED CLIP PANEL



"CCP" —unquestionably the finest roofing and siding product on the market today. The distinctive, deeply-formed 12-inch wide interlocking modular panels assemble to any width, yet the joints between panels and connectors are completely concealed. Panel lengths up to 39 feet further eliminate or minimize visible seams, providing a beautiful wall expanse unbroken by obvious panel widths, button punching, connectors or "oil-canning."

Extensive testing and actual applications have proved the functional beauty, dependability and versatility of design combined with economy and ease of erection.

Here is a modern roofing and siding product responsive to the skills of the architect, with many features that permit accuracy of execution. Here is a distinctive, economical wall system ideally suited for an unlimited range of commercial, industrial and institutional applications, extending even into residential uses as well.

"CCP" opens new fields of expression for the architect or owner who desires distinctive beauty combined with utility, design versatility and low maintenance.

All the excellent qualities of aluminum are enhanced by the aesthetic values of clean-line design and invisible joints. The stucco-embossed texture is available in natural finish or your choice of eight durable COLOR-WELD colors.

"CCP" siding panels are easily adaptable from single skin to insulated wall construction by various methods. (See suggested details page 17). "CCP" can also be installed as a complete field-assembled wall with a choice of interior panels.

TESTED STRENGTH .. DURABILITY ... WEATHERABILITY

"CCP" testing proved the soundness of span and load values recommended, and the excellent weather resistance and stability of the interlocking panel design.

The strong, lightweight aluminum panels have good spanning characteristics; purlin spacing varying with applied loads and panel thickness (.032", .040" are offered as standard items. .024" and .050" are available subject to special inquiry).

Hurricane-velocity winds and driving rain failed to penetrate or damage "CCP" roofs or siding. The double-channel configuration of the interlocking panel insures against leakage thru the side laps.

CALL YOUR REYNOLDS REPRESENTATIVE FOR ASSISTANCE IN USING "CCP"

Complete details to assist you in designing "CCP" into your next building are as close as your local Reynolds building products sales representative. Contact him for further information and assistance.

"CCP" LOAD-SPAN CHART

The Load-Span graphs on this page show the limits for load and span for two different design considerations—uniform and concentrated loading. They allow a graphic check on both considerations for .032", .040", and .050" thickness and/or single, double and triple spans.

UNIFORM LOADING

The curved line for each span condition represents combinations of maximum span and/or direct or reverse load within the strength of the panels, including an appropriate safety factor. Each anchor clip will resist 300 pounds reverse load.

CONCENTRATED LOADS (WALKING)

A heavy vertical dotted line divides the area under the curve. To the left, the span will support a man walking on the roofing. To the right, the roofing may be damaged by foot traffic so is suitable for use as siding only or protection must be provided.

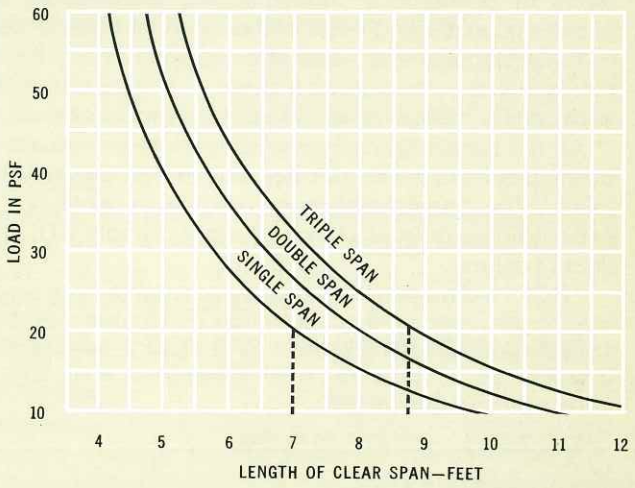
NOTE

Find the design load on the left margin. Read the clear span from the bottom scale. If regular foot traffic is expected on the roofing, be sure the load-span point is to the left of the vertical dotted line.

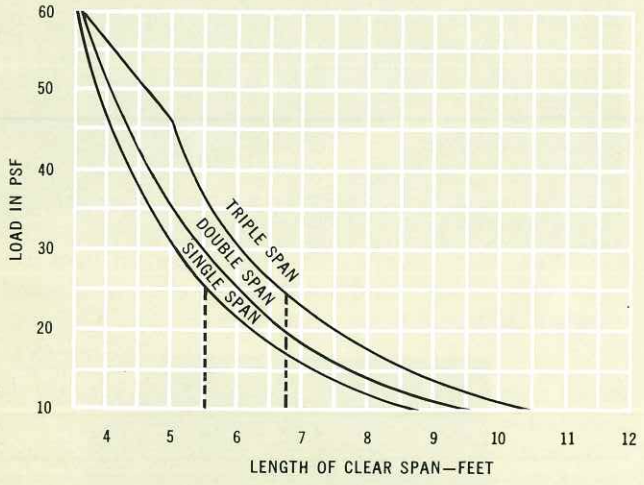
The actual span will generally be 2 or 3 inches longer than the clear span (width of the girt).

A single span should be used only where absolutely necessary, such as over window or door openings.

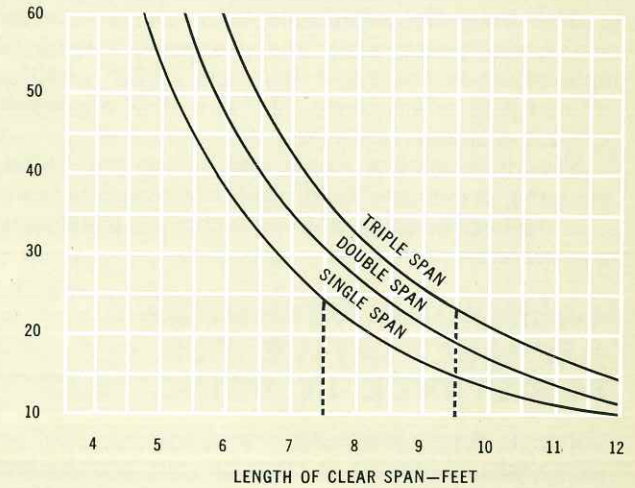
LOAD-SPAN CURVES FOR .040 "CCP"

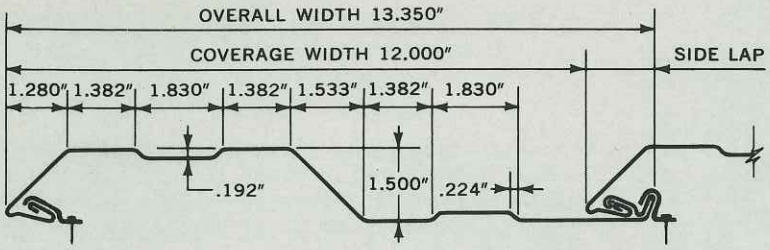


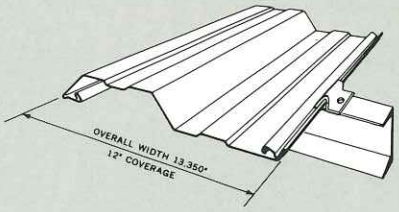
LOAD-SPAN CURVES FOR .032 "CCP"

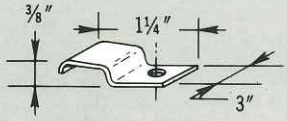


LOAD-SPAN CURVES FOR .050 "CCP"

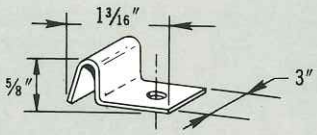




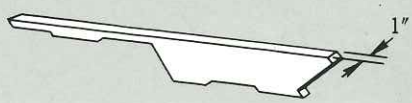




STARTER CLIP
mill finish .064" thick.

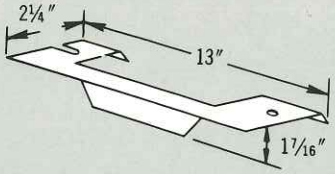


ANCHOR CLIP
mill finish .064" thick.

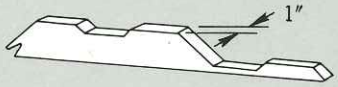


CLOSURE PLUG, OUTSIDE,
neoprene 1" wide.

SNAP-IN TOOL, 6½" wide, 6" long,
8½" high (to top of handle).

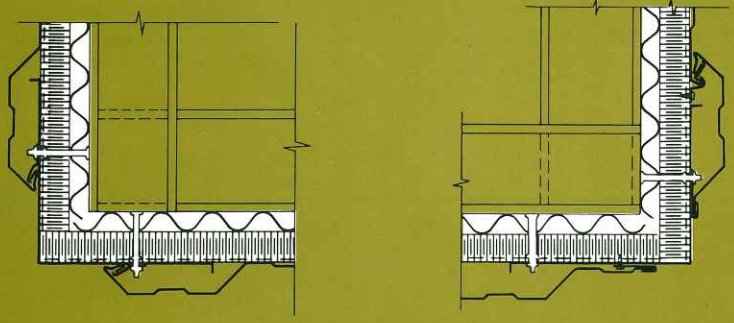


CONTOUR CLOSURE in same thicknesses
and finishes as flat flashing.

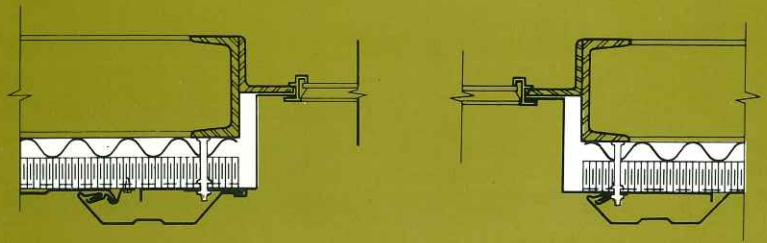


CLOSURE PLUG, INSIDE,
neoprene, 1" wide.

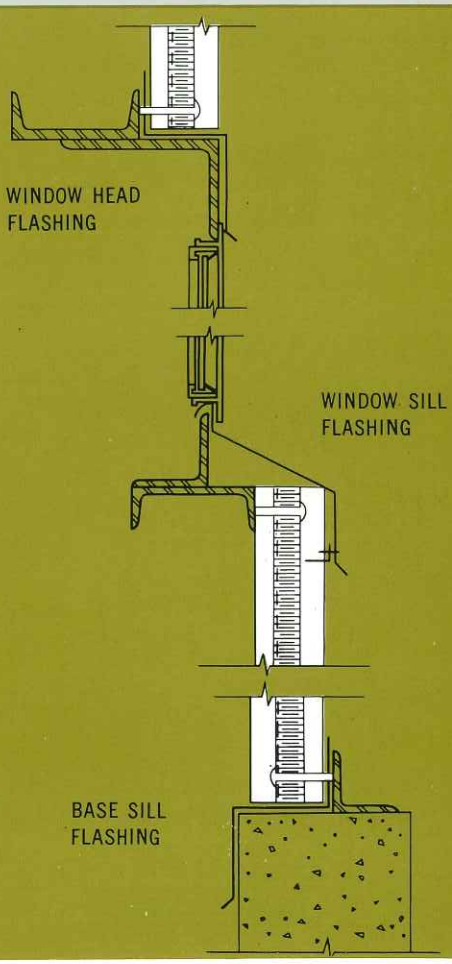
FLASHING – FIELD ASSEMBLED INSULATED WALL SYSTEM



CORNER FLASHING



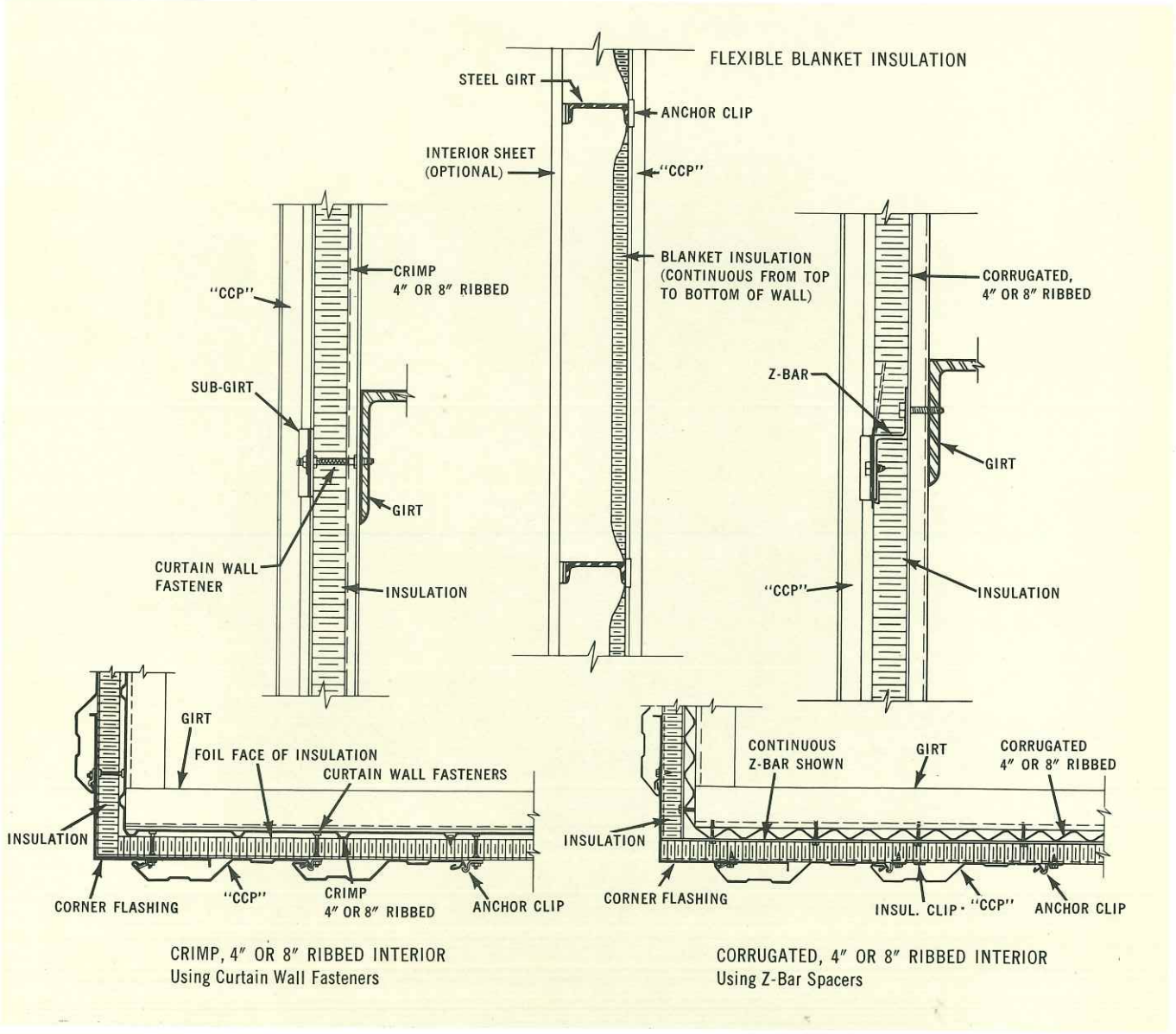
JAMP DETAILS



"CCP" PANELS PERFECT FOR AN INSULATED WALL SYSTEM

"CCP" panels can be readily adapted to an insulated wall system, with blanket or board insulation installed between the sub girts, or blanket insulation installed on the exterior face of girts. Various details may be used to achieve a highly efficient wall system. Some suggested details appear below.

See pages 8 and 9 for additional aluminum insulated wall information or contact your local Reynolds sales representative.



ARCHITECTS AND OWNERS AGREE ON "CCP"

Before

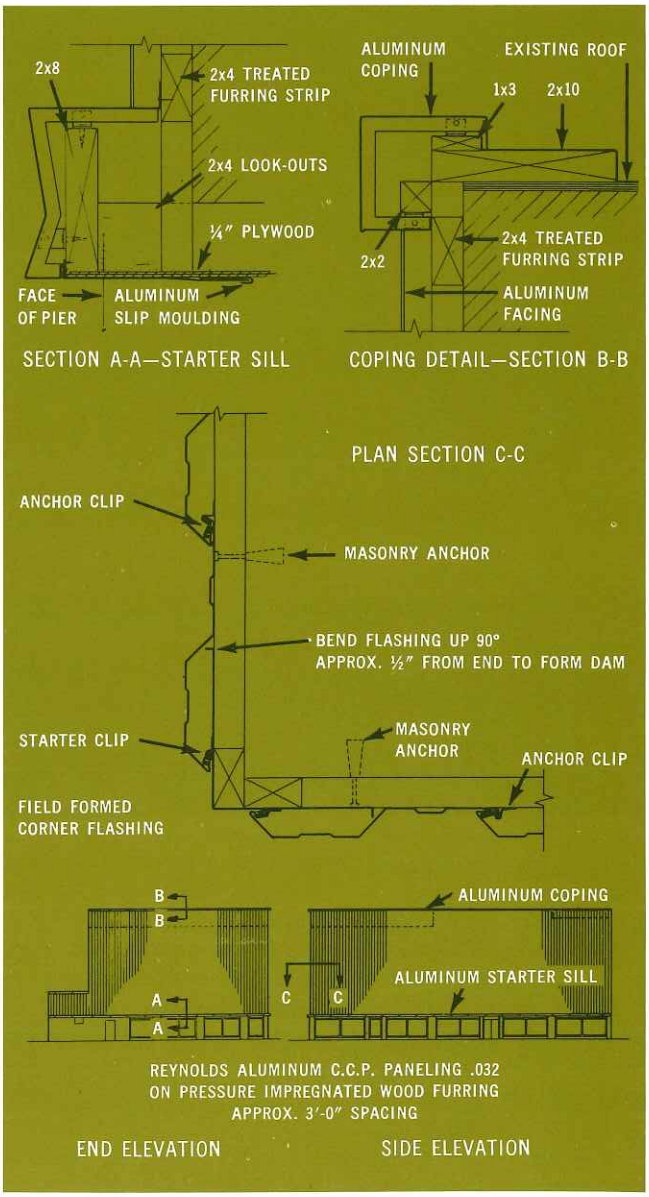
After

Architect and owner alike are quick to recognize the advantages CCP offers for use in commercial buildings, offices, factories, institutions, warehouses, supermarkets and many other types of buildings.

CHECK THESE ADVANTAGES!

1. Each panel covers a 12-inch width and locks firmly with its neighbor as it snaps into place.
2. Lengths from 4′ to 39′ (Longer lengths available on special inquiry.)
3. Concealed Clip construction eliminates exposed fastener heads.
4. The built in gutter design prevents leaks through side laps without any gaskets or caulking to stain exposed surface or to deteriorate. Has resisted hurricane winds and rains under tests and in actual service.
5. The weatherproof Reynolds Aluminum resists all the elements better than any other low cost material.
6. The panel remains always free to expand or contract with changing temperatures, without affecting the construction or the appearance.
7. CCP works just as well for roofs as for walls!
8. Foolproof—quality of job not dependent on skill of workmen.
9. Multi-rib and valley shape assures extra strength.
10. Simple cuts permit tight fitting at end laps without capping or swaging.
11. CCP panels are easily adaptable from single skin to insulated wall construction with a choice of interior panels.
12. CCP design permits back-nesting for compact shipping and protection.
13. Light weight permits easier application.
14. Easily cut and worked on the job with standard everyday tools.
15. Panels are made in thicknesses of .032" and .040". (.024" and .050" are available on special inquiry.)
16. Easy to replace damaged panels.
17. Full line of accessories.
18. Concealed side lap eliminates need for button punching and unsightly standing seam.
19. Ready availability . . . coil is inventoried for .032" Natural, Polar White, Mint Green, Dawn Blue and Desert Beige Stucco Embossed and .040" Natural and Polar White Stucco Embossed. Other thicknesses and finishes are available on special inquiry.
20. Porcelainizing is practical with this product.
21. Walls can be taken down and re-located economically.
22. Fewer fasteners required.
23. Burglar proof—no fasteners exposed.
24. Easy to erect with convenient snap-in tool.
25. All raw edges are completely concealed.
26. Panels may be used in horizontal as well as the conventional vertical position. (Contact RMC sales representative.)
27. Easy to make layouts, take-offs and price.
28. Easy to layout for clean flashing details.

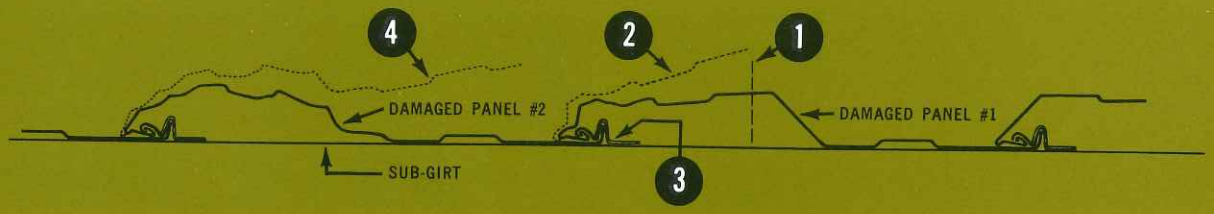
RESURFACING WITH CCP



"CCP" DAMAGED PANEL REPLACEMENT

Should any of the CCP sections be damaged, replacement of the damaged panel is easily handled. The only tools needed are a saw, CCP snap-in tool and a hammer. Replacement of a panel can be accomplished in a matter of minutes—without so much as the removal of an old fastener or installation of a new one.

No other parts of the field-assembled wall need be disturbed and the replacement will be undetectable. This is in sharp contrast to the usual evidences of old or enlarged fastener holes and tool-marred panels.



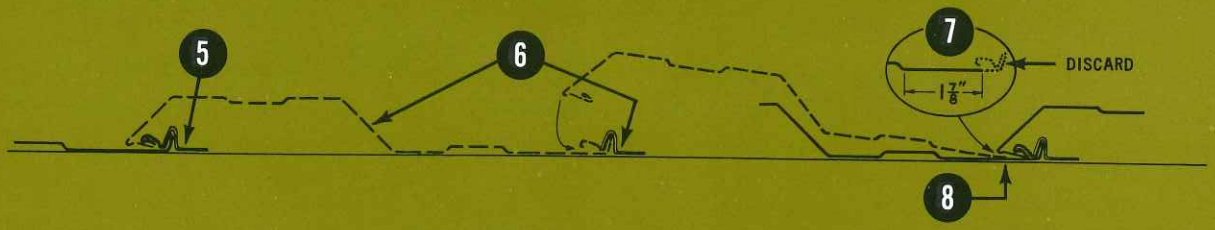
PROCEDURE (REMOVAL):

STEP 1. Use a saw to cut thru full length of damaged panel #1. De-burr as indicated by dash line.

STEP 2. Bend section back and forth until lock releases it from adjacent panel.

STEP 3. Remove anchor clip holding damaged panel #2.

STEP 4. Lift up damaged panel #2 and repeat steps 2 and 3 (if additional panels are damaged) until all damaged panels are removed. When removing last damaged panel, take care not to damage valley section of adjacent good panel.



PROCEDURE (RE-INSTALL):

STEP 5. Make certain anchor clip is tight. With a rubber hammer, tap the hook of the first good panel back down to its original position so that the first new panel will snap snuggly in place and will not back out, once snapped in. (This opening is approximately 3/16".) If practical, use new self-tapping screws of same type as before and new clips to install new panels.

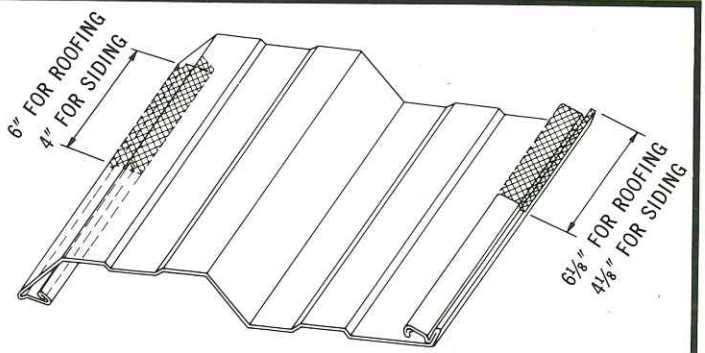
STEP 6. Re-install new panels, in reverse order from removal of damaged panels, in same manner as in new installation, snapping each panel in place and replacing anchor clip as before. Replace all damaged panels except damaged panel #1 in this way.

STEP 7. Saw-cut entire length of new replacement panel for damaged panel #1 and de-burr edge as indicated by dash line and arrow.

STEP 8. Start cut edge into joint first, in direction of arrow as shown, but do not push all the way in yet, making certain cut edge does not slip out. Press panel down as indicated by arrows and engage hook. With snap-in tool, slip panel into place in the usual manner.

END-LAP PANEL CUT

End laps are required for roofing and siding runs exceeding 39'. Lap top panel over bottom panel 6" for roof; 4" for siding by cutting notches, as shown by shaded area, in lower panel. Upper panel will then nest over notched panel, providing snug, neat joint.



"CCP" SUGGESTED ARCHITECTURAL SPECIFICATIONS

.01 GENERAL CONDITIONS: The General Conditions of the Contract for the Construction of Buildings, Standard Form of the American Institute of Architects, current edition, and "Supplementary General Conditions," articles———thru———, are part of this specification.

.02 SCOPE OF WORK: This contractor shall furnish all labor, materials, and equipment to complete the fabrication and erection of all aluminum roofing and/or siding shown on the drawings, or herein specified as follows:

a. Reynolds Aluminum Commercial Concealed Clip Panel roofing and siding as manufactured by the Reynolds Metals Company.
b. Reynolds Aluminum field formed or preformed flashing as required for a weather-tight installation of the "CCP" aluminum roofing and/or siding.
c. Materials required to insulate aluminum from other materials in accordance with Section .07 of this specification.
d. Fasteners and clips required to secure "CCP" aluminum roofing and/or siding sheets, flashings, closures and other work included in this section.
e. Preformed neoprene and aluminum closures required for a weather-tight installation.
f. Calking and sealing required in connection with the work of this section.
g. (Include following paragraph if it has not previously been included in the Supplementary General Conditions.) Necessary facilities for storage of material to prevent water or physical damage to materials prior to installation. Materials shall be stored in accordance with the manufacturer's recommendations.

.03 MATERIALS:

a. Roofing and/or Siding Panels: Reynolds Commercial Concealed Clip Panels, .032" (.040") thick with stucco embossed surface, natural or coated with Colorweld®, color———as manufactured by the Reynolds Metals Company. Lengths are shown on the drawings and in material list on drawing No.———.
b. Starter Clips, Aluminum Mill Finish .064" thick.
c. Anchor Clips, Aluminum Mill Finish .064" thick.
d. Insulation Clips, Mill Finish Aluminum .064" thick.
e. Snap-In Tool, designed to install "CCP" panels without denting or damage to finish, as manufactured by Reynolds Metals Company.
f. Flashing Stock, 48" wide, .032" thick, 120" long, stucco embossed with natural Aluminum finish or Colorweld®, color———.
g. Contour Aluminum Closures, stucco embossed .032" thick, natural aluminum or painted finish.
h. Self-Tapping Screws, stainless steel Type 410, #14 x 1", Hex washer head, Type B.
i. Self-Tapping Screws, stainless steel, Type 410, #14 x ¾", Hex head, Type B, w/stainless steel backed neoprene washer.
j. Sheet Metal Screws, stainless steel, Type 305, #14 x ¾", Hex head, Type A, w/stainless steel backed neoprene washer.
k. Calking Compound, all-purpose, mastic, gun grade, non-skinning, aluminum color.
l. Calking Compound, gun grade, skinning type, white color.
m. Touch-Up Paint, Colorweld®, color———.

.04 APPLICATION: All application of "CCP" aluminum roofing and/or siding work herein specified shall be in accord with the recommendations and instructions supplied by the Reynolds Metals Company.

.05 EXAMINATION OF SURFACES: All defects or omissions found in surfaces prepared by other trades, upon which "CCP" aluminum roofing and/or siding is to be placed shall be reported to the architect (general contractor) in writing. The architect (general contractor) will cause all defects or omissions to be remedied. The starting of work by this contractor indicates his acceptance of the surfaces.

.06 SHOP DRAWINGS: Prints of shop drawings, showing dimensions, sizes, thicknesses, materials, finishes, joinings, attachments, fasteners, and relationship of work of this section to adjoining work, shall be submitted to the architect (general contractor) for approval. Drawings must be approved by the architect (general contractor) before any work shall be performed by this contractor. All work shall be fabricated and erected in accordance with the approved shop drawings.

.07 CONTACT WITH NON-ALUMINUM SURFACES: Contact between aluminum and other metals shall be avoided by coating non-aluminum surfaces with an aluminum-pigmented asphalt paint, or equivalent. Copper products shall not be used in connection with aluminum work, nor shall aluminum be used in locations subject to drainage of copper compounds on the bare aluminum. Aluminum in contact with, or built into, masonry or plaster, shall be coated with asphalt, bituminous mastic, or equivalent. Aluminum in contact with green or wet wood, or wood preservatives that are not compatible with aluminum, shall be back-coated with aluminum-pigmented asphalt paint and/or 30-pound asphalt-saturated felt installed between the aluminum and the wood.

REYNOLDS ALUMINUM

Reynolds Aluminum Roof Deck is a premium quality product designed as a deck for use with the standard fiber glass rigid-board insulation and conventional built-up roof. It is fabricated from aluminum sheets, .036" .040" and .050" thick, formed into panels having six stiffener ribs 1.75" deep and 4.8" center to center. This unique design, plus the many advantages offered by durable aluminum, add up to roof deck which is unmatched by any similar product.

USES:

Aluminum roof deck has proven particularly advantageous in those plants where high humidity, condensation, & highly corrosive conditions are a serious problem. Examples of such plants include paper mills, textile mills, glass works, brick kilns and various types of food processing plants such as canneries. Aluminum's high resistance to corrosion ensures continual trouble-free service for all seasons even in highly corrosive chemical industrial atmospheres.

Aluminum is the economical answer to many problems of maintenance created by unusual conditions. One of these is the high standard of cleanliness maintained in food-processing plants, where the cost of cleaning and repainting other materials becomes prohibitive. Aluminum roof deck is a completely homogeneous smooth-surfaced material that will not retain moisture or dirt, will not rust and has no coatings to flake, chip or peel off, or need renewing at frequent intervals. Once in place it never needs any cleaning or painting and the alloy is a carefully selected Alclad to give maximum resistance to most types of chemical corrosion.

Light weight and strong, Reynolds Aluminum Commercial Roof Deck is easy to install and cuts handling costs all along the line. During erection, sections can be raised into position manually and easily handled by the erecting crew without costly fatigue. One panel 25 inches wide by 22 feet 5 inches long weighs only 41 pounds, yet covers 47 square feet. It also means faster

ROOF DECK

placing, more area covered per sheet, and fewer laps. Due to the light weight of aluminum roof deck, expensive hoisting equipment is not required, resulting in no time loss for installing or moving construction equipment.

This sturdy roof deck also offers many advantages during construction, since it is not subject to breakage, is not shattered by impact, and has no coating to be damaged during or after installation. In addition these sheets are easy to cut, drill and punch requiring no special equipment.

In addition the many other important benefits normally expected from the inherent properties of aluminum are bonus features.

COMPARE THESE ADVANTAGES:

LIGHT WEIGHT

1. Less Dead Load means saving in structural costs.

2. Larger Sheets can be used and still be easily "man handled". Fewer sheets are needed to cover an area resulting in less material wasted by lap loss, fewer fasteners. Fewer sheets to handle mean shorter installation time and therefore lower installation costs. An aluminum deck panel of the same weight and strength covers more than twice as much area as steel, more than four times as much as precast materials.

REFLECTIVITY

1. Greater Light Reflectivity inevitably results in more even light distribution, fewer light fixtures needed and lower power requirements. Lighting efficiency is maintained over entire useful life. Reduces shadows and dark corners.

2. Greater Heat Reflectivity gives more favorable "U" value than non-reflective metals, results in lower heat loss and air-conditioning load—savings thru smaller capacity equipment as well as less fuel and power. The added value of reflective insulation provides warmer interiors in winter at lower fuel costs by reflecting interior heat.

ACOUSTICS

Noise is reduced by aluminum, a "dead" material in regard to sound transmission or reflection. Unperforated aluminum roof deck reduces sound transmission in noisy areas, compared to acoustically "live" materials. Better working conditions are created for employees, and fatigue is reduced.

EASE OF APPLICATION

1. "Joggled" End at one end of each roof deck panel receives standard end of adjacent panel allowing fast and easy placement.

2. Workability of aluminum allows easy drilling for fasteners and cutting of openings for stocks, vents, drains, etc., saving labor time.

3. No welding required for fastening to structural members. Attachment is by clips or sheet metal screws, however, studs welded to structurals may be used if desired.

APPEARANCE

No Ceiling Is Needed—Other types of deck often require, in some applications, a suspended ceiling beneath to hide the objectionable appearance of the deck. Aluminum deck, with its natural, reflective surface provides a light, airy, "finished" look that eliminates the need for a ceiling! Further, the appearance *stays* beautiful over its entire life without any painting or maintenance.

ECONOMY

1. A Truly Economical Deck must be lower in cost per square foot after including *all* costs over its service life; initial, maintenance, and disposal costs after razing.

2. Aluminum Deck Effects Maintenance Savings over its entire service life to offset its somewhat higher initial cost over some types of deck.

3. Salvage Value of Aluminum Is High. Some types of deck not only have zero salvage value, but actually cost to be disposed of. Aluminum has a salvage value so high that often it alone pays for the premium that aluminum may have cost over other types of decks! That makes all the other advantages and savings of aluminum over its service life a pure bonus.

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LIGHTWEIGHT, CLASS "A" INCOMBUSTIBLE SOUND

Architects planning efficient sound conditioning systems have many types of materials at their command. These materials must be judged upon their comparative merits of appearance, performance, and cost. To satisfy all of these important factors, many architects and engineers specify "Reynolds Aluminum" for industrial, institutional, and commercial buildings. The characteristics of aluminum combine to produce a ceiling, wall or soffit system with intrinsic beauty, permanent acoustical properties, virtually no maintenance, and complete incombustibility.

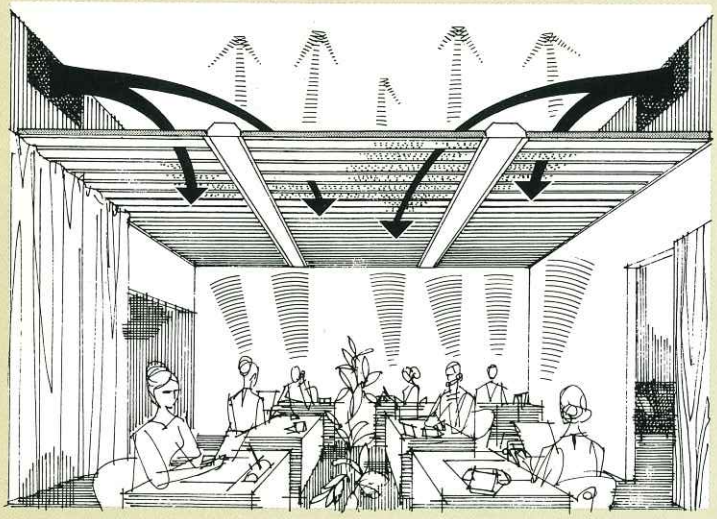
Here are the reasons why:

Noise Reduction. Noise reduction occurs as the sound flows through the perforations and is absorbed in the space above the panel. Superior performance is achieved when used with the ¾# density fiber glass sound absorbent blankets. (See table for independent laboratory test results.) Reynolds aluminum acoustical systems are compatible with many standard products affording maximum flexibility over a wide range of insulating and sound absorption requirements.

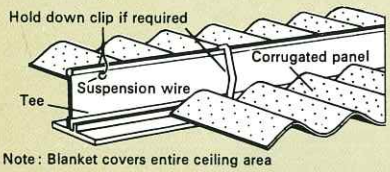
Ease of Installation. Reynolds large, lightweight panels permit fast, simple installation saving time on both new and remodeling projects.

Accessibility. Individual panels are easily removed for access to concealed utilities.

Maintenance. Panels are easily cleaned with a damp cloth. The sheets may also be removed and cleaned or



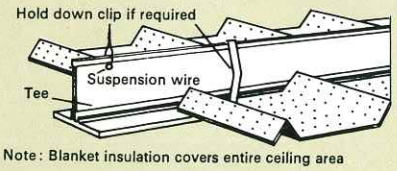
PANELS FOR LINEAR SYSTEMS



Note: Blanket covers entire ceiling area

Corrugated Panels

.024" thick stucco embossed, natural aluminum, or white enamel corrugated to 2.67" pitch x ¾" depth, perforated with ⅛" holes on staggered 21/64" centers. Panel width is 41" giving a nominal coverage of 40" with one corrugation side lap. Standard panels are available in 71¾" and 144" lengths. Maximum span between tees: 6'0".

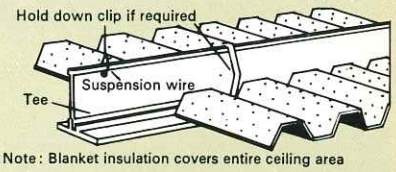


Note: Blanket insulation covers entire ceiling area

V-Crimp Panels

.024" thick stucco embossed, natural aluminum, or white enamel crimped to ⅝" depth on a 4" pitch, perforated with ⅛" diameter holes on 21/64" staggered centers. Panel width is 40" giving a nominal coverage of 39⅝" with one crimp side lap. Standard panels are available in 47¾", 71¾" and 120" lengths. Maximum span between tees: 6' 0".

PANELS FOR GRID SYSTEMS



Note: Blanket insulation covers entire ceiling area

Pyramid Panels

.024" thick stucco embossed, natural aluminum, or white enamel 1½" pitch x ⅜" depth, perforated with ⅛" diameter holes on 21/64 staggered centers. Panel is 23¾" x 47¾" to fit a nominal 2' x 4' panel grid system.

CONDITIONING THAT NEEDS LITTLE MAINTENANCE

painted without affecting the sound absorbent qualities of the installation.

Incombustibility. Underwriters' Laboratories, Inc., report states, in part, "The acoustical panels described in this report have been tested under Federal Specifications S.S.-A-1186 and have been awarded class "A" rating."

Thermal Insulation. Reynolds sound absorption blanket provides additional thermal insulation.

Lightweight. Consideration that Reynolds Acoustical System weighs less than 1# per square foot may permit lightening of structural members in new projects or be especially advantageous in older buildings where installed weight is a definite consideration.

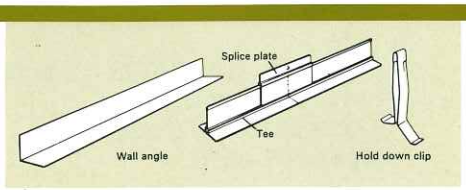
Moisture Resistance. Reynolds Systems are especially desirable in high humidity areas.

Adaptability. Reynolds Systems readily integrate with various lighting fixtures, air conditioning and heating systems. Conditioned air may be passed directly through the acoustical ceiling. (See Illustration on opposite page) Lower velocity air produces more uniform heating or cooling at lowest possible sound level, and greater comfort since there is no concentrated air movement to impinge on personnel near duct outlets.

Reflectivity. Light reflection of Reynolds natural aluminum is 71% —white enamel, 76%.

Reusability. All components may be removed without physical damage to them. They are 100% salvageable and reusable.

CORRUGATED AND V-CRIMP SYSTEM ACCESSORIES



Tee. Extruded aluminum, 2" reeded flange x 2½" web x 1/16" thick in 6063-T5 alloy. Available in 12' lengths.

Splice plate. Extruded aluminum, 1/16" thick x 5" x 3¼" in 6063-T5 alloy, designed to support and align adjacent tee sections. A ¼" hole is provided to accommodate suspension wire.

Wall angle. Extruded aluminum, 1" reeded exposed leg 1/16" thick in 6063-T5 alloy. Available in 12' lengths.

Hold down clip. A painted spring steel clip designed to fit over the web of the tee and secure adjoining panels is available if required.

SOUND COEFFICIENTS

Sound absorbing blankets are provided in several thicknesses to accommodate varying requirements. Performance of the corrugated panels, when used with each of the blankets, as determined by Riverbank Acoustical Laboratories is shown below.

	¾# DENSITY						
	Coefficients —No. 7 Mounting NRC						
Blanket Thickness	125 CPS	250 CPS	500 CPS	1000 CPS	2000 CPS	4000 CPS	Spec. Range
1"	.41	.59	.63	.65	.74	.71	65-75
1½"	.59	.75	.74	.80	.81	.80	75-85
2"	.71	.85	.84	.88	.87	.87	85-95

Sound absorbing blanket. Available in ¾# density per cubic foot. This incombustible blanket consists of glass fiber with a plastic binder that prevents sifting and disintegration. Write for data pages—Complete specifications, installation instructions, etc., are available without charge. Simply request them on your letterhead.

SUGGESTED SPECIFICATIONS
For Reynolds Aluminum Linear Acoustical Systems
MATERIALS

(a) Acoustical Panels

1. Commercial corrugated acoustical panels shall be fabricated from .024 inch thick aluminum sheet, stucco embossed, and shall be perforated with ⅛ inch diameter holes on 21/64 inch staggered centers. The exposed side of all panels shall be finished by:
   - cleaning to remove all traces of dirt, grease, and oils so as to present a natural aluminum finish, or
   - the application of one coat of medium gloss white enamel paint applied only after the panels have been prepared to receive the paint by application of a conversion coating.

   All panels shall be as supplied by Reynolds Building Products and Supply Division, Park Ridge, Illinois.
2. V-Crimp Acoustical Panels shall be fabricated from .024 inch thick aluminum sheet, stucco embossed, and shall be perforated with ⅛ inch diameter holes on 21/64 inch staggered centers. The exposed side of all panels shall be finished by:
   - cleaning to remove all traces of dirt, grease, and oils so as to present a natural aluminum finish, or
   - the application of one coat of medium gloss white enamel paint applied only after the panels have been prepared to receive the paint, by application of a conversion coating.

   All panels shall be as supplied by Reynolds Building Products & Supply Division, Park Ridge, Illinois.

(b) Suspension Tees and Wall Angles

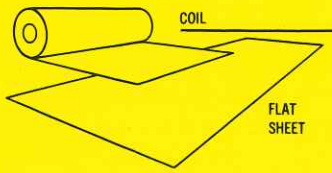
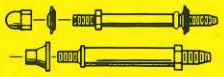
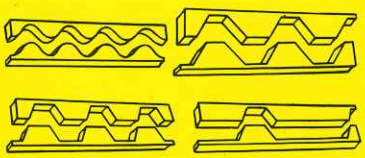
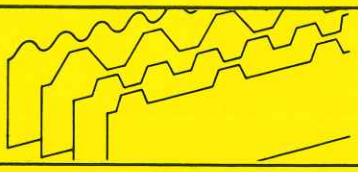
All suspension tees and wall angles shall be fabricated from aluminum extrusions 6063-T5 alloy and shall be as supplied by Reynolds Building Products and Supply Division, Park Ridge, Illinois. These extrusions shall be finished by:

- the application of one sprayed and baked-on coat of medium gloss white enamel paint. The paint shall be applied only after the extrusions have been prepared to receive the paint, by application of a conversion coating, or
- application of a three minute caustic etch and ten minute clear anodized treatment so as to present a natural aluminum finish.

(c) Sound Absorbing Blanket

The sound absorbing blanket shall be ¾ pound per cubic foot density glass fiber type AF-315 as manufactured by the Owens-Corning Fiberglas Company—Toledo, Ohio. The blanket shall be_____thick to provide a noise reduction range of_____.
(Fill in blanks per table at left)
For Corrugated Panels—1" thick .65-.75; 1½" thick, .75-.85; 2" thick .85-.95.

ACCESSORIES AVAILABLE FROM REYNOLDS METALS CO.

	ACCESSORIES	DESCRIPTION
FLASHING	 COIL	.032" 14" x 186'
	FLAT SHEET	.032" 28" x 120" 36" x 120", 36" x 96" .032" 48" x 120" .040" 36" x 96", 48"x 120" .050" 36"x 96", 48" x 120"
FASTENERS		Special Stainless Steel Self-Tapping Screw with Neoprene Washer and Aluminum Cap
		Stainless Steel Self-Tapping Screw, #14 x ¾" Type B, Integral Hex Washer Head with Neoprene Washer
		Stainless Steel Sheet Metal Screw, #14 x ¾" Type A, Hex Head with Neoprene-Backed Alum. Washer
		Stainless Steel Sheet Metal Screw, #10 & #12 x ⅞" Type A, with Neoprene-Backed Alum. Washer
CLOSURES		Neoprene Filler Strips, for providing weather tightness at flashed joints. Available for Corrugated, V-Beam, 4" and 8" Rib (specify inside or outside).
		Aluminum Contoured Closure Strips that serve as both flashing and closure. Available for Corrugated, V-Beam, 4" and 8" Rib (specify inside or outside).
MISCELLANEOUS	MASTIC & SEALANT	All-Purpose Mastic—Non-Skinning Type, and All-Purpose Sealant—Skinning Type; both Gun-Grade; available in 1/10 gal. cartridge and 1 gal. can.
	TRANSLUCENT PANELS	Fiber glass Reinforced Plastic Panels, available in Rib, V-Beam and Corrugated designs to match Aluminum Roofing & Siding.
	GLASS FIBER INSULATION	FOR INSULATED WALL Fiber glass, Type PF615; FOR ACOUSTICAL CEILING: Fiber glass, Type AF315.
	ACOUSTICAL SUPPORTS	Extruded Aluminum Tee Bar, Wall Angle and Splice Plate, and Spring Steel Hold-Down Clip for use with Reynolds Acoustical Systems.
	CCP ACCESSORIES	Snap-In-Tool. Contour Closures, Neoprene Filler Strips, Starter Clips, Anchor Clips, (See page 15)
	TOUCH-UP PAINT	8 STD Colors in Qt. Cans

Adv. No. 125-1-39 (60-1065)

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